

CLAIMS

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I claim:

- 1. Thermometer implants comprising a thermometer body, the thermometer body enclosing a channel and a bulb, the channel being terminated by the bulb at one end, the channel and the bulb containing a fluid, the fluid expanding and contracting along the channel to a fluid length which is functionally related to a target temperature of the bulb at a target time, the thermometer body being located in a subject body from where the fluid length is not visible at the target time, and thermometer body properties and fluid properties together making possible measurement of the fluid length outside of the subject body.
- 2. The device of claim 1 wherein at least one marker is located on the thermometer body.
- 3. The device of claim 1 further comprising a sequent thermometer body, the sequent thermometer body enclosing a sequent channel and a sequent bulb, the sequent channel being terminated at one end by the sequent bulb, the sequent bulb and the sequent channel containing a sequent fluid, the sequent fluid expanding and contracting along the sequent channel to a sequent thermometer fluid length which is functionally related to a sequent target temperature of the sequent bulb at a sequent target time, the sequent thermometer body being located in the subject body from where the sequent fluid is not visible at the sequent target time, and sequent thermometer body properties and sequent fluid properties together making possible measurement of the fluid length outside of the subject body.
- 4. The device of claim 1 wherein the thermometer body encloses a sequent channel and a sequent bulb, the sequent channel being terminated by the sequent bulb at one end, the sequent bulb and the sequent channel containing a sequent fluid, the sequent fluid expanding and contracting along the sequent channel to a sequent fluid length which is functionally related to a sequent target temperature of the sequent bulb at a sequent target time, the sequent fluid length being not visible at the target time, and sequent fluid properties making possible measurement of the sequent fluid length outside of the subject body.
- 5. The device of claim 1 wherein the channel has a varying area along the channel.

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- 6. The device of claim 1 wherein the channel is folded.
- 7. The device of claim 1 wherein the subject body is in, and alternatively is intended for use in, a living human.
- 8. The device of claim 1 further comprising a trigger mechanism which is remotely activated and which locks the fluid length so that the fluid length does not change after the trigger mechanism is activated.
- 9. The device of claim 4 wherein the channel and sequent channel form a contiguous channel, the contiguous channel having a movable piston riding in the contiguous channel dividing the fluid from the sequent fluid with a fluid length to sequent fluid length ratio at the target time being functionally related to a target temperature to sequent target temperature ratio at the target time.